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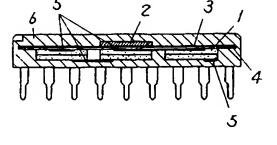
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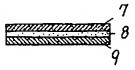
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TITLE

INFORMATION MEMORY DEVICE





ABSTRACT: PURPOSE: To provide an auxiliary power source built-in memory device having long life and compact size by incorporating all solid state secondary batteries in a resin package.

> CONSTITUTION: A solid state unit cell 1 measuring 5×5×0.8mm and a semiconductor memory device chip 2 are fixed on the both sides of a lead frame 3, and electrodes 5 for connecting unit cells in series are arranged, and they are incorporated in a resin package 6 which also serves as a battery container. A unit cell pellet consists of a positive layer 7 comprising positive mix of the mixture of Cu_{0.6}V₂O₅ powder and Cu ion conductive electrolyte of RbCu₄I_{1.5}Cl_{3.5} powder and graphite, an electrolyte layer 8 comprising Cu ion conductive solid electrolyte of RbCu₄I_{1.5}Cl_{3.5}, and a negative layer 9 comprising negative mix of the mixture of Cu₂S powder, Cu powder, and Cu ion conductive solid electrolyte RbCu₄I_{1.5}Cl_{3.5} powder. By packaging together memory device and batteries, volatile memory device which loses memory stored when it is separated from power source can be converted into vertual nonvolatile memory device.

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